



# Compliance Monitoring Data Portal (CMDP)

South Carolina Department of Health and Environmental Control  
Healthy People. Healthy Communities.

# CMDP Overview

- The CMDP is a web-based data reporting system ...purpose is to enable laboratories and public water systems to **electronically report compliance sample results**

# Why CMDP?

- Improve efficiency
- Reduce errors
- Ensure complete entries
- Decrease reporting burden
- Reduction of overall costs
- Improved customer service
- Improve compliance decision making
- **Ensuring the safety of drinking water across the State with improved analysis and timely notifications**



**PROTECT**

# CMDP – Data Upload – How?

- 3 options to upload data
  - Excel CMDP Sample Template – produces an XML file to upload
  - Sample Data Entry Webform
  - Web Services – LIMS systems “talks” directly to CMDP Web Services

# What's an XML file?

```
<?xml version="1.0" encoding="UTF-8" standalone="true"?>
- <SDWIS:MDBPSummaries xmlns:SDWIS="http://www.epa.gov/sdwis">
  - <SDWIS:MDBPSummaryDetails>
    <SDWIS:RecordID>1</SDWIS:RecordID>
    <SDWIS:SummaryTypeCode>MRDL</SDWIS:SummaryTypeCode>
    <SDWIS:PWSIdentifier>SC2310001</SDWIS:PWSIdentifier>
    <SDWIS:PWSFacilityIdentifier>DS23-1</SDWIS:PWSFacilityIdentifier>
    <SDWIS:AnalyteCode>0999</SDWIS:AnalyteCode>
    <SDWIS:MonitoringPeriodBeginDate>2020-09-01</SDWIS:MonitoringPeriodBeginDate>
    <SDWIS:MonitoringPeriodEndDate>2020-09-30</SDWIS:MonitoringPeriodEndDate>
    <SDWIS:ReportedDate>2020-10-06</SDWIS:ReportedDate>
    <SDWIS:SamplesRequiredQuantity>180</SDWIS:SamplesRequiredQuantity>
    <SDWIS:SamplesCollectedQuantity>185</SDWIS:SamplesCollectedQuantity>
    <SDWIS:LevelComplianceIndicator>N</SDWIS:LevelComplianceIndicator>
  - <SDWIS:MonitoringPeriodAverage>
    <SDWIS:MeasurementValue>2.35</SDWIS:MeasurementValue>
    <SDWIS:MeasurementUnit>MG/L</SDWIS:MeasurementUnit>
  </SDWIS:MonitoringPeriodAverage>
</SDWIS:MDBPSummaryDetails>
</SDWIS:MDBPSummaries>
```

# What type of data does DHEC want to receive from our water systems and labs?

- Microbiological:
  - Total coliform and its associated Total Chlorine Residual Reading
  - E. coli
- Operational parameters:
  - Chlorine Chloramine in Distribution System (MRDL)



# CMDP Support at <https://cmdp.zendesk.com/hc/en-us>

A screenshot of the Compliance Monitoring Data Portal (CMDP) Support Zendesk Help Center. The interface has a blue header bar with the "Compliance Monitoring Data Portal (CMDP) SUPPORT" logo on the left and a search bar on the right. Below the header, the "HELP CENTER" section is displayed. It features four dark gray rectangular buttons with white text: "Announcements", "For Primacy Agencies", "For Laboratories and Water Systems", and "FAQs, Tips and Tricks". To the right of these buttons is a "Promoted articles" section listing several links related to CMDP release notes, software updates, and user manuals. At the bottom left, there is a link to a "CMDP Transition Flowchart" with the subtext "As an admin can I change my email preferences?".

**Compliance Monitoring Data Portal (CMDP) SUPPORT** Search

## HELP CENTER

[Announcements](#)

[For Primacy Agencies](#)

[For Laboratories and Water Systems](#)

[FAQs, Tips and Tricks](#)

### Promoted articles

- [CMDP Release Notes \(1.12.1\) for Production](#)
- [CMDP Release Notes \(1.12.1\) for Pre-Production](#)
- [CMDP Release Notes \(1.11.1\) for Production](#)
- [CMDP Release Notes \(1.11\) for Pre-Production](#)
- [Software update: DSE files, certificate files, and Cypher tool](#)
- [\[CMDP\] Software Update: DSE config file](#)
- [\[CMDP\] Software Update: WAR file v1.10\\_103](#)
- [CMDP Release Notes \(1.10\)](#)
- [Query files updated - use the latest version](#)
- [User Manual updated 1/3/2018](#)
- [Memo from EPA clarifying support roles](#)

[CMDP Transition Flowchart](#)  
As an admin can I change my email preferences?



# For Labs and Water Systems

## Getting Started with CMDP

- [Introduction to the CMDP \(video 1\)](#)
- [CMDP Role Registration User Guide](#)
- [System Requirements and Qualifications for Laboratories and Water Systems](#)
- [CMDP Support Primacy Agency Points of Contact](#)
- [CMDP User Registration \(video 10\)](#)

## Technical Documentation

- [Sample Result XSD](#)
- [EXCEL Templates \(download here\)](#)
- [CMDP Web Services Sampling XML Schema Definitions](#)
- [CMDP Web Services Inventory and Lab Data Dictionary](#)
- [CMDP Inventory and Laboratory JSON Structure](#)

## Using CMDP for Labs & Public Water Systems (PWS)

- [CMDP User Manual v 1.4.1](#)
- [Creating and Submitting a Water System Profile Change Request](#)
- [Entering PWS and Lab Profiles \(video 3\)](#)
- [Using Data Entry Screens to Enter Microbial, Chem, and Rad, Samples \(video 4\)](#)
- [Using Data Entry Screens to enter Composite Samples \(video 5\)](#)
- [Using Data Entry Screens to enter Operational Data \(video 6\)](#)

[See all 9 articles](#)

## Using CMDP with Your Laboratory Information Management System

- [CMDP - LIMS Interface Control Document](#)



# For Labs and Water Systems

## Using CMDP For Labs & Public Water Systems (PWS)

Instructions and training videos for using CMDP as an administrator, submitter, and certifier representing water systems and laboratories.

- [CMDP User Manual v 1.4.1](#)
- [Creating and Submitting a Water System Profile Change Request](#)
- [Entering PWS and Lab Profiles \(video 3\)](#)
- [Using Data Entry Screens to Enter Microbial, Chem, and Rad, Samples \(video 4\)](#)
- [Using Data Entry Screens to enter Composite Samples \(video 5\)](#)
- [Using Data Entry Screens to enter Operational Data \(video 6\)](#)
- [Searching Samples \(video 7\)](#)
- [Manually Uploading Files Using CMDP Templates \(video 8\)](#)
- [Submission Workflow \(submitting jobs to primacy agencies\) \(video 9\)](#)

## Anticipated End Users:

- Public Water Systems –reporting monthly bacteriological results and monthly distribution residuals
- Microbiological Labs Certified in South Carolina reporting monthly bacteriological results

## Access to SC CMDP

- Email [fullerma@dhec.sc.gov](mailto:fullerma@dhec.sc.gov)
- You will receive an email inviting you to complete registration with EPA's Shared CROMERR Services for Test
- Once approved, log in to CMDP Test Environment and begin testing
- If testing proves successful and accurate, graduate to EPA's Shared CROMERR Services for Production



# Reporting Monthly Residual in Distribution


[https://cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj\\_spring\\_cas\\_security\\_check](https://cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj_spring_cas_security_check)

The screenshot shows a web browser window with the URL [https://cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj\\_spring\\_cas\\_security\\_check](https://cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj_spring_cas_security_check). The browser's address bar and tabs are visible at the top. The main content area has a dark green header with the EPA logo on the left and the text "CMDP Secure Login (Pre-Production)" in white. Below the header, a light gray box contains the login form. The form is titled "Enter your Username and Password" and includes fields for "Username:" and "Password:". Below the password field is a link for "Warning Notice and Privacy Policy". There is a checkbox labeled "Warn me before logging me into other sites." and a "LOGIN" button. To the right of the "LOGIN" button is a "clear" link. A security notice is displayed to the right of the login form: "For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!".

EPA Central Authentication Service x +

cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj\_spring\_cas\_security\_check

Apps Sign in to your acco... SDWIS Production SDWIS Test EPA SCS CMDP CDX Home Central... Imported From IE Citrix XenApp - Log... Homepage SCDHE... EA Regional Offices... Google Earth »

 **CMDP Secure Login** (Pre-Production)

Enter your Username and Password

Username:

Password:

[Warning Notice and Privacy Policy](#)

☐ Warn me before logging me into other sites.

clear

For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!



# Log In – Notice “Hello” & Organization

Change Working Organization  
SC - South Carolina ▼

Templates  
▼ Download

Change Working Organization  
SC - 40201 - SC DHEC BEHS A... ▼

Templates  
▼ Download

Templates  
▼ Download

- Sample Results
- Operational Data

Hello Mary Fuller(State CMDP Administrator)  
(ORG: SC-South Carolina)

Sample  
Results  
Template

Version:	2.035
Last Updated	June 29, 2020
* - Indicates Required Field	

Operational  
Data  
Template

Version:	2.0.21
Last Updated	December 30, 2019
* - Indicates Required Field	

“Enable Editing” – “Enable Content”



# Select Drinking Water Sample Jobs

**Compliance Monitoring Data Portal** (Pre-Production v1.24 / Latest DSE v1.23)

[Home](#) [PWS Profiles](#) [Laboratory Profiles](#) [Drinking Water Sample Jobs](#) [Search Individual Samples](#)

[Job Maintenance View](#)

# Create New Job – Enter a group of samples



**Drinking Water Sample Jobs**

Refresh **Create New Job** Send to Reviewer Send to Certifier Certify and Submit to State Reject Remove Download Samples

<input type="checkbox"/>	Job ID	Records	Records Uploaded	Records Not Uploaded	Sample
<input type="checkbox"/>	81634	N/A	N/A	N/A	Operat Sample
<input type="checkbox"/>	77024	6	0	0	Chem/I
<input type="checkbox"/>	75434	48	0	0	Chem/I
<input type="checkbox"/>	75096	N/A	N/A	N/A	Operat Sample
<input type="checkbox"/>	72568	N/A	N/A	N/A	Operat Sample
<input type="checkbox"/>	72559	N/A	N/A	N/A	Microbi
<input type="checkbox"/>	72547	N/A	N/A	N/A	Microbi
<input type="checkbox"/>	72544	N/A	N/A	N/A	Operat Sample
<input type="checkbox"/>	71914	N/A	N/A	N/A	Microbi
<input type="checkbox"/>	70918	18	18	0	Microbi

**Create New Job Options**

Please select one of the methods below.

 Upload File
  Enter a group of samples

↑

# Enter a Value for Job Description

Create New Job Options

Please select one of the methods below.

Upload File

Please enter a value

Job Description

OK Cancel

Please enter a value

Job Description

SC2310001 MRDL Sep 2020

OK Cancel



Here we go!!

Job Maintenance View Job Summary View - 82121

Operational Data Job History Validation

Add Remove

Operational Data

- Turbidity CFE
- Turbidity IFE
- Chlorine Dioxide and Chlorite
- Chlorine and Chloramines Entering DS
- Chlorine and Chloramines in DS



# Drinking Water Watch (DWW) = Your Friend and Ally



## Public Water Supply Systems Search Parameters

Water System No.

Water System Name

Principal County Served

Water System Type

Primary Source Water Type

Point of Contact Type

## Sample Search Parameters

### Sample Class

Sample Collection Date  
(The Sample Search always produces results for the last 2 years, unless you provide a specific date range.)

Sample Count	Sample Type	Sample Frequency	Effective Begin Date	Effective End Date	Seasonal Start MM/DD	Seasonal End MM/DD	Analyte Code	Analyte Name
180	RT	MN	11-01-2004		1/1	12/31	3100	COLIFORM (TCR)

Search For Water System

Review Consumer Confidence Data

Clear

Glossary

## TCR Schedules

Through DWW you can confirm the # of monthly bacteriological samples required and that requirement is the # of monthly total chlorine residual measurements

[Click Here for the County Map of SOUTH CAROLINA](#)



# Enter Required Data noted by \* and red font

Save Close

Operational Data - Distribution System Maximum/Minimum Residual Disinfectant Level

Residual Reporting Type\* : MRDL Water System\*f : SC2310001 Water System Name : GREENVILLE WATER (2310001) Facility\*f : DS23-1 - 10286 - DISTRIBUTION

MRDL Measurements

MRDL Violation? f	Number of MRDL Measurements Required	Number of MRDL Measurements f	Monthly Average f
No	180	185	2.35

\*Water System

\*Facility

\*Reporting Period

MRDL Violation will prefill "No"

Number of MRDL Measurements Required

Number of MRDL Measurements

Monthly Average

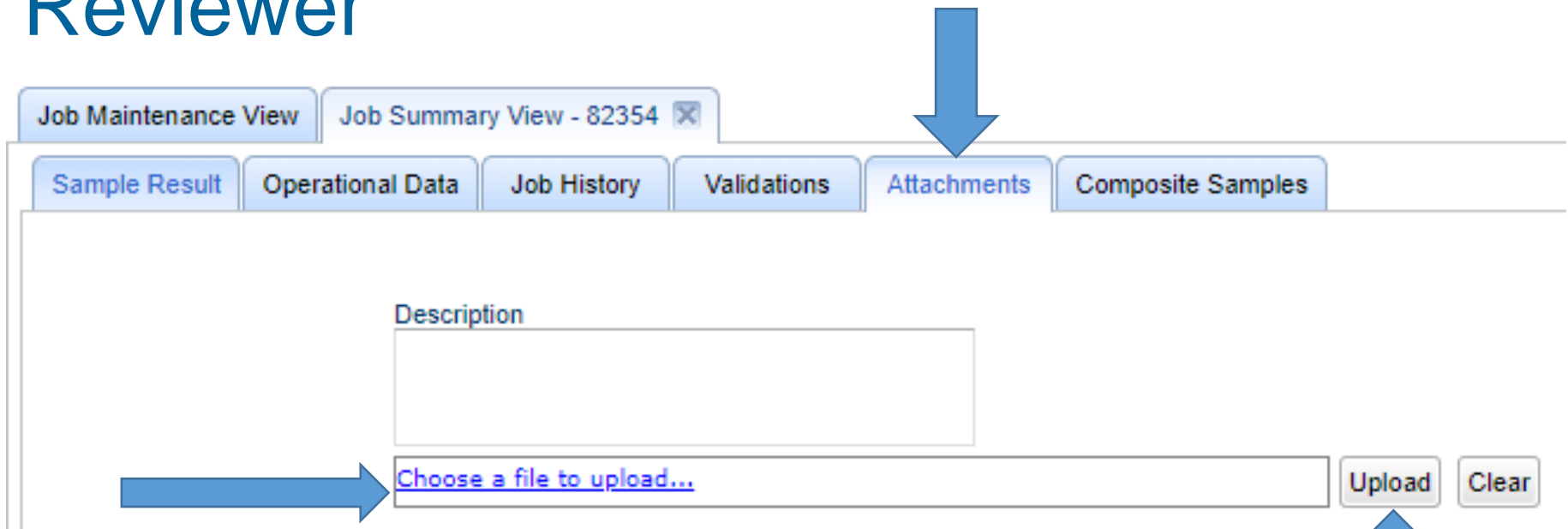
\* - Required + - Conditionally Required f - Federally Required f - Federally Conditionally Required

Reporting Period\*f :  
Sep 2020

Quarterly RAA f

→ Save

# Submitting an Attachment? – Create Job – Attach File BEFORE Submitting to Reviewer



The screenshot shows the 'Job Summary View - 82354' interface. A large blue arrow points down to the 'Attachments' tab. Below the tabs, there is a 'Description' text area. A blue arrow points to the 'Choose a file to upload...' link. To the right of this link are 'Upload' and 'Clear' buttons. A blue arrow points up to the 'Upload' button.

Job Maintenance View | Job Summary View - 82354 ☐

Sample Result | Operational Data | Job History | Validations | **Attachments** | Composite Samples

Description

[Choose a file to upload...](#)

Attachment format = Excel or PDF

# Attachments can be removed and/or downloaded

Job Maintenance View

Job Summary View - 82354 ✕

Sample Result

Operational Data

Job History

Validations

Attachments

Composite Samples

Description

[Choose a file to upload...](#)

Upload

Clear

✖ Remove

📄 Download File

File Name	Description	Date Added
<input type="checkbox"/> DWCM Section.pdf		10/06/2020



# Back to Home – check My Work in Progress

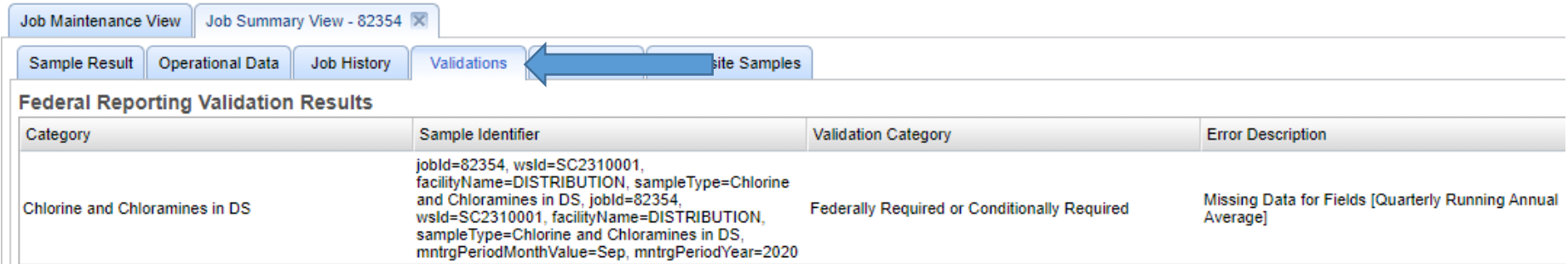
## My Work In Progress

Job Id	File Name	Description	Created By	Created On	Status	
82163		SC2310001 MRDL Sep 2020	Mary Fuller	10/05/2020	Draft with Preparer	

Note Job ID assigned (*in this example, 82163, represents an earlier job*). **This Job ID is useful if problems arise with the submission and we need to investigate.**



# Click on Job – Job Summary View Opens – Click on Validations







Job Maintenance View		Job Summary View - 82354	
Sample Result	Operational Data	Job History	Validations
Federal Reporting Validation Results			
Category	Sample Identifier	Validation Category	Error Description
Chlorine and Chloramines in DS	jobId=82354, wsId=SC2310001, facilityName=DISTRIBUTION, sampleType=Chlorine and Chloramines in DS, jobId=82354, wsId=SC2310001, facilityName=DISTRIBUTION, sampleType=Chlorine and Chloramines in DS, mntrgPeriodMonthValue=Sep, mntrgPeriodYear=2020	Federally Required or Conditionally Required	Missing Data for Fields [Quarterly Running Annual Average]

Error Description = Missing Data for Fields (Quarterly Running Annual Average) which is a type of Validation Category Federally Required or Conditionally Required. This file will upload. The missing RAA will be calculated by SDWIS State software after uploading. Close Summary View.

# Drinking Water Sample Jobs – Select job and proceed with Review-Certify-Certify/Submit to State

## Drinking Water Sample Jobs

 Refresh  Create New Job  Send to Reviewer  Send to Certifier					
<input type="checkbox"/>	Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category
<input type="checkbox"/>	82354	N/A	N/A	N/A	Operational Samples
<input type="checkbox"/>	81634	N/A	N/A	N/A	Operational Samples
<input type="checkbox"/>	77024	6	6	0	Chem/Radi...
<input type="checkbox"/>	75434	48	48	0	Chem/Radi...
<input type="checkbox"/>	75096	N/A	N/A	N/A	Operational Samples

Web entries will not “count” total records or records upload. Only XML data submitted will show a “count”.







# Send to Certifier

Job Maintenance View

**Search Jobs**

Job ID: 82354    Created By:    Status:    From:    To:

**Drinking Water Sample Jobs**

Refresh    + Create New Job    Send to Reviewer    **Send to Certifier**    Certify and Submit to State    - Reject    - Remove

<input checked="" type="checkbox"/>	Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample	Description	File Name	Privacy	Status
<input checked="" type="checkbox"/>	82354	N/A	N/A	N/A					

**Send Data to Certifier**

Select Individual: **Mary Fuller**


Are you sure you want to submit this data to the certifier?

**Submit**    Cancel





# Send to Certify and Submit to State

Job Maintenance View

**Search Jobs**

Job ID: 82354    Created By:    Status:    From:    To: 

**Drinking Water Sample Jobs**

 Refresh    Create New Job   Send to Reviewer   Send to Certifier   **Certify and Submit to State**    Reject    Remove

<input checked="" type="checkbox"/>	Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status
<input checked="" type="checkbox"/>	82354	N/A	N/A	N/A	Operational Samples	SC2310001 MRDL Sep 2020		SC	Draft with Certifier

This final Certify and Submit to State requires a password and agreement to the conditions of submitting an electronic file.



Question

Job Id: 82354

Submission Context:

[Download Sample XML](#)

Attachments

File Name	Description	Date Added	Added By
DWCM Section.pdf		10/06/2020	Mary Fuller

☒ I certify, under penalty of law that the information provided in this document is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Please ensure that you have reviewed all selected jobs before submitting. You will not be able to update the selected jobs after submitting them to the state.

Submit

# DHEC's view of Job ID 82354

Dashboards

State Dashboards

**Submission Received**

Job Id	Organization	Description	Status	Sample Category	Certified By	Certified On	Attachments
82354	40201	SC2310001 MRDL Sep 2020	Submitted	Operational Samples	Mary Fuller	10/06/2020	DWCM Section.pdf
81634	40201	test op mrld ds w attach					
80614	SC2310001	New Job using files					
77434	SC2310001	New Job using files					
77203	40004	New Job using files					
77199	40004	New Job using files					
77128	SC2310001	New Job using files					

**Submissions (to State)**

Job Id	File Name	Certified By	Certified On	Status
82354		Mary Fuller	10/06/2020	Accepted by State
81634		Mary Fuller	09/25/2020	Accepted by State
77024	CEG file_2020082...	Mary Fuller	08/25/2020	Accepted by State
75434	mysamples_...	Wendi Smith	08/18/2020	Accepted by State
75096		Mary Fuller	08/17/2020	Accepted by State
72568		Mary Fuller	07/30/2020	Accepted by State

Job 82354 starts as status "Submitted" and eventually moves to status "Accepted by State"



## DSE – XML Upload – SDWIS State

Water System No.	WSF State Asgn ID	Monitoring Period Name	M/R Comp?	Level Comp?	Monitoring Per Avg
SC2310001	DS23-1	2020M09	YES	N	2.3500

Water System No.	WSF State Asgn ID	Monitoring Period Name	M/R Comp?	Level Comp?	Monitoring Per Avg
SC2310001	DS23-1	2020M09	YES	Y	2.3500

Date Reported

10/06/2020



Number of Samples Required

180

Number of Samples Taken

185

M/R Complied ?

Yes



Monitoring Period Average

2.3500

mg/L



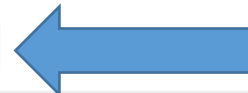
Running Annual Average

2

mg/L



SDWIS State software calculates the  
Running Annual Average





South Carolina Department of Health and Environmental Control  
Healthy People. Healthy Communities.

# CONTACT US

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